

ATGGAACAGACGCTATTGATGGCTATATAACATGTGACAATGAGCTTTCACCCGAAGGGGAACACGCCA 70
 TACCTTTGTCTGCGATAACTACCGATATATTGTACACTGTTACTCGAAAGTGGGCTTCCCCTTGTGCGGT
 M E T D A I D G Y I T C D N E L S P E G E H A
 ATATGGCCATTGACCTCACCTCAAGCACGCCAATGGACAGCAGCCTCGCCAAGTCACATGACAAGCAC 140
 TATACCGGTAACCTGGAGTGGAGTTCGTGCGGGTTACCTGTCGTGCGGAGCGGTTCAAGTGTACTGTTCTG
 N M A I D L T S S T P N G Q H A S P S H M T S T
 AAATTCTGTAAAGCTGGAAATGCAGAGTGATGAAGAGTGTGACAGGCAGCCCCTGAGCCGTGAGGATGAG 210
 TTTAAGACATTTGACCTTTACGTCTCACTACTTCTCACACTGTCCGTGCGGGACTCGGCACCTCCTACTC
 N S V K L E M Q S D E E C D R Q P L S R E D E
 ATCAGGGGCCACGATGAGGGGAGCAGCCTAGAAGAACCCTAATTGAGAGCAGCGAGGTGGCCGACAACA 280
 TAGTCCCCGGTGCTACTCCCCTCGTCGGATCTTCTTGGGGATTAAGTCTCGTCGCTCCACCGGCTGTTGT
 I R G H D E G S S L E E P L I E S S E V A D N
 GGAAAGTCCAGGACCTTCAAGGCGAGGGAGGAATCCGGCTTCCGAATGGTAAACTGAAATGTGACGTCTG 350
 CCTTTCAGGTCTTGAAGTTCGGCTCCCTCCTTAGGCCGAAGGCTTACCATTGACTTTACACTGCAGAC
 R K V Q D L Q G E G G I R L P N G K L K C D V C
 TGGCATGGTTTGCATTGGGCCCCAATGTGCTTATGGTACATAAAAGGAGTCACACTGGTGAGCGGCCCTTC 420
 ACCGTACCAAACGTAACCCGGGTTACACGAATACCATGTATTTTCTCAGTGTGACCACTCGCCGGGAAG
 G H V C I G P N V L M V H K R S H T G E R P F
 CACTGTAACCAGTGCGGAGCTTCTTTTACCCAGAAGGGCAACCTTCTGAGACAGATAAAGTTACACTCTG 490
 GTGACATTGGTCACGCCTCGAAGAAAATGGGTCTTCCCGTTGGAAGACTCTGTGTATTTCAATGTGAGAC
 H C N Q C G A S F T Q K G N L L R H I K L H S
 GAGAGAAGCCCTTCAAATGTCTTTCTGTAGCTATGCTTGTAGAAGAAGGGACGCTCTCACAGGACACCT 560
 CTCTCTTCGGGAAGTTTACAGGAAAGACATCGATACGAACATCTTCTTCCCTGCGAGAGTGTCTGTGGA
 G E K P F K C P F C S Y A C R R R D A L T G H L
 CAGGACCCATTCTGTGGGTAAACCTCACAAGTGTAACTACTGTGGCCGAAGCTACAAGCAGCGCACGTCA 630
 GTCCTGGGTAAAGACACCCATTTGGAGTGTTCACATTGATGACACCGGCTTCGATGTTCTGTCGCTGCAGT
 R T H S V G K P H K C N Y C G R S Y K Q R T S

FIG. 3
 (1 of 3)

CTGGAGGAACACAAGGAACGCTGTCACAACCTATCTCCAGAATGTCAGCATGGAGGCTGCCGGGCAGGTCA 700
 GACCTCCTTGTTCTTGGACAGTGTTGATAGAGGTCTTACAGTCGTACCTCCGACGGCCCGTCCAGT
 L E E H K E R C H N Y L Q N V S M E A A G Q V
 TGAGTCACCATGTACCGCCTATGGAAGATTGTAAGGAACAAGAGCCTATCATGGACAACAATATTTCTCT 770
 ACTCAGTGGTACATGGCGGATACCTTCTAACATTCTTGTCTCGGATAGTACCTGTTGTTATAAAGAGA
 M S H H V P P M E D C K E Q E P I M D N N I S L
 GGTGCCTTTTGAGAGACCTGCTGTCATAGAGAAGCTCACGGCAAATATGGGAAAGCGCAAAAGCTCCACT 840
 CCACGGAAACTCTCTGGACGACAGTATCTCTCGAGTGCCGTTTATACCCTTTCGCGTTTTTCGAGGTGA
 V P F E R P A V I E K L T A N M G K R K S S T
 CCTCAGAAGTTTGTGGGGGAAAAGCTTATGCGATTTCAGCTACCCAGATATTCATTTTGATATGAACCTAA 910
 GGAGTCTTCAAACACCCCTTTTGAATACGCTAAGTCGATGGGTCTATAAGTAAACTATACTTGAATT
 P Q K F V G E K L M R F S Y P D I H F D M N L
 CATATGAGAAGGAGGCTGAGCTGATGCAGTCTCATATGATGGACCAAGCCATCAACAATGCAATCACCTA 980
 GTATACTCTTCCCTCCGACTCGACTACGTCAGAGTATACTACCTGGTTTCGGTAGTTGTTACGTTAGTGGAT
 T Y E K E A E L M Q S H M M D Q A I N N A I T Y
 CTTGGAGCTGAGGCCCTTCAACCTCTGATGCAGCATGCACCAAGCACAAATCGCTGAGGTGGCCCCAGTT 1050
 GGAACCTCGACTCCGGGAAGTGGGAGACTACGTCGTACGTGGTTCTGTGTTAGCGACTCCACCGGGGTCAA
 L G A E A L H P L M Q H A P S T I A E V A P V
 ATAAGCTCAGCTTATTCTCAGGTCTATCATCCAAACAGGATAGAAAGACCCATTAGCAGGGAAACATCTG 1120
 TATTCGAGTCGAATAAGAGTCCAGATAGTAGGTTTGTCTATCTTTCTGGGTAATCGTCCCTTTGTAGAC
 I S S A Y S Q V Y H P N R I E R P I S R E T S
 ATAGTCACGAAAACAACATGGATGGCCCCATCTCTCTCATCAGACCAAAGAGTCGACCCAGGAAAGAGA 1190
 TATCAGTGCTTTTGTGTACCTACCGGGGTAGAGAGAGTAGTCTGGTTTCTCAGCTGGGGTCCCTTTCTCT
 D S H E N N M D G P I S L I R P K S R P Q E R E
 GGCCTCGCCCAGCAATAGCTGCCTCGATTCTACTGACTCAGAAAGTAGCCATGATGACCGCCAGTCCTAC 1260
 CCGGAGCGGGTCTTATCGACGGAGCTAAGATGACTGAGTCTTTCATCGGTACTACTGGCGGTCAGGATG
 A S P S N S C L D S T D S E S S H D D R Q S Y

FIG. 3

CAAGGAAACCTGCCTTAAATCCCAAGAGGAAACAAAGCCCAGCTTACATGAAGGAGGATGTCAAGGCTT 1330
 GTTCCTTTGGGACGGAATTTAGGGTTCTCCTTTGTTTCGGGTCAATGTACTTCCTCCTACAGTTCCGAA
 Q G N P A L N P K R K Q S P A Y M K E D V K A
 TGGATGCTACCAAGGCCCCCAAGGGCTCTCTGAAGGACATCTATAAGGTTTTCAATGGAGAAGGAGAACA 1400
 ACCTACGATGGTTCCGGGGGTTCCTGAGAGACTTCCTGTAGATATTCAAAAGTTACCTCTTCCTCTTGT
 L D A T K A P K G S L K D I Y K V F N G E G E Q
 GATAAGGGCCTTCAAGTGTGAGCACTGCCGAGTCCTTTTTCTAGACCATGTCATGTACACCATTACATG 1470
 CTATTCCCGGAAGTTCACACTCGTGACGGCTCAGGAAAAAGATCTGGTACAGTACATGTGGTAAGTGAC
 I R A F K C E H C R V L F L D H V M Y T I H M
 GGTTGCCATGGCTACCGGGACCCACTGGAATGCAACATCTGTGGCTACAGAAGCCAGGACCGCTACGAAT 1540
 CCAACGGTACCGATGGCCCTGGGTGACCTTACGTTGTAGACACCGATGTCTTCGGTCCTGGCGATGCTTA
 G C H G Y R D P L E C N I C G Y R S Q D R Y E
 TTTCATCACACATTGTTGGGGGGCAGCACACATTCCACTAGGCGTTTGCATTCCAAGG 1598
 AAAGTAGTGTGTAACAACCCCCGTCGTGTGTAAGGTGATCCGCAAACGTAAGGTTCC
 F S S H I V G G Q H T F H . A F A F Q G

FIG. 3
 (3 of 3)

ATGGAACAGACGCTATTGATGGCTATATAACATGTGACAATGAGCTTTCACCCGAAGGGGAACACGCCA 70
 TACCTTTGTCTGCGATAACTACCGATATATTGTACACTGTTACTCGAAAGTGGGCTTCCCTTGTGCGGT
 M E T D A I D G Y I T C D N E L S P E G E H A
 ATATGGCCATTGACCTCACCTCAAGCACGCCCAATGGACAGCACGCCTCGCCAAGTCACATGACAAGCAC 140
 TATACCGGTAACCTGGAGTGGAGTTCGTGCGGGTTACCTGTCGTGCGGAGCGGTTCAAGTGTACTGTTCTGT
 N M A I D L T S S T P N G Q H A S P S H M T S T
 AAATTCTGTAAAGCTGGAAATGCAGAGTGATGAAGAGTGTGACAGGCAGCCCTGAGCCGTGAGGATGAG 210
 TTTAAGACATTTTCGACCTTTACGTCTCACTACTTCTCACACTGTCCGTGCGGGGACTCGGCACTCTACTC
 N S V K L E M Q S D E E C D R Q P L S R E D E
 ATCAGGGGCCACGATGAGGGGAGCAGCCTAGAAGAACCCTAATTGAGAGCAGCGAGGTGGCCGACAACA 280
 TAGTCCCGGTGCTACTCCCTCGTCGGATCTTCTTGGGGATTAAGTCTCGTCGCTCCACCGGCTGTTGT
 I R G H D E G S S L E E P L I E S S E V A D N
 GGAAAGTCCAGGACCTTCAAGGCGAGGGAGGAATCCGGCTTCCGAATGGTGAGCGGCCCTTCCACTGTAA 350
 CCTTTCAGGTCTGGAAGTTCGGCTCCCTCCTTAGGCCGAAGGCTTACCACTCGCCGGGAAGGTGACATT
 R K V Q D L Q G E G G I R L P N G E R P F H C N
 CCAGTGCGGAGCTTCTTTTACCCAGAAGGGCAACCTTCTGAGACACATAAAGTTACACTCTGGAGAGAAG 420
 GGTACGCCTCGAAGAAAATGGGTCTTCCCGTTGGAAGACTCTGTGTATTTCAATGTGAGACCTCTCTTC
 Q C G A S F T Q K G N L L R H I K L H S G E K
 CCCTTCAAATGTCCTTTCTGTAGCTATGCTTGTAGAAGAAGGGACGCTCTCACAGGACACCTCAGGACCC 490
 GGAAGTTTACAGGAAAGACATCGATACGAACATCTTCTCCCTGCGAGAGTGTCTGTGGAGTCCTGGG
 P F K C P F C S Y A C R R R D A L T G H L R T
 ATTCTGTGGGTAAACCTCACAAGTGTAAGTGTGGCCGAAGCTACAAGCAGCGCACGTCACTGGAGGA 560
 TAAGACACCCATTGAGGTGTTACATTGATGACACCGGCTTCGATGTTCTGTCGCGTGCAGTGACCTCCT
 H S V G K P H K C N Y C G R S Y K Q R T S L E E
 ACACAAGGAACGCTGTCACAACTATCTCCAGAATGTCAGCATGGAGGCTGCCGGGCAGGTCATGAGTCAC 630
 TGTGTTCCCTGCGACAGTGTGATAGAGGTCTTACAGTCGTACCTCCGACGGCCCGTCCAGTACTCAGTG
 H K E R C H N Y L Q N V S M E A A G Q V M S H

FIG. 4
 (1 of 3)

CATGTACCGCCTATGGAAGATTGTAAGGAACAAGAGCCTATCATGGACAACAATATTTCTCTGGTGCCTT
 GTACATGGCGGATACCTTCTAACATTCCTTGTCTCTCGGATAGTACCTGTTGTTATAAAGAGACCACGGAA 700
 H V P P M E D C K E Q E P I M D N N I S L V P
 TTGAGAGACCTGCTGTCATAGAGAAGCTCACGGCAAATATGGGAAAGCGCAAAAGCTCCACTCCTCAGAA
 AACTCTCTGGACGACAGTATCTCTTCGAGTGCCGTTTATACCCTTTCGCGTTTTCGAGGTGAGGAGTCTT 770
 F E R P A V I E K L T A N M G K R K S S T P Q K
 GTTTGTGGGGGAAAAGCTTATGCGATTACAGCTACCCAGATATTCATTTTGATATGAACCTAACATATGAG
 CAAACACCCCTTTTCGAATACGCTAAGTCGATGGGTCTATAAGTAAACTATACTTGAATTGTATACTC 840
 F V G E K L M R F S Y P D I H F D M N L T Y E
 AAGGAGGCTGAGCTGATGCAGTCTCATATGATGGACCAAGCCATCAACAATGCAATCACCTACCTTGGAG
 TTCTCCGACTCGACTACGTACAGTATACTACCTGGTTCGGTAGTTGTTACGTTAGTGGATGGAACCTC 910
 K E A E L M Q S H M M D Q A I N N A I T Y L G
 CTGAGGCCCTTCACCCTCTGATGCAGCATGCACCAAGCACAATCGCTGAGGTGGCCCCAGTTATAAGCTC
 GACTCCGGGAAGTGGGAGACTACGTCTGACGTGGTTTCGTGTTAGCGACTCCACCGGGGTCAATATTCGAG 980
 A E A L H P L M Q H A P S T I A E V A P V I S S
 AGCTTATTCTCAGGTCTATCATCAAACAGGATAGAAAGACCCATTAGCAGGGAAACATCTGATAGTCAC
 TCGAATAAGAGTCCAGATAGTAGGTTTGTCTATCTTTCTGGGTAATCGTCCCTTTGTAGACTATCAGTG 1050
 A Y S Q V Y H P N R I E R P I S R E T S D S H
 GAAAACAACATGGATGGCCCCATCTCTCTCATCAGACCAAAGAGTCGACCCAGGAAAGAGAGGCCTCGC
 CTTTTGTTGTACCTACCGGGGTAGAGAGAGTAGTCTGGTTTCTCAGCTGGGGTCCTTTCTCTCCGGAGCG 1120
 E N N M D G P I S L I R P K S R P Q E R E A S
 CCAGCAATAGCTGCCTCGATTCTACTGACTCAGAAAGTAGCCATGATGACCGCCAGTCCTACCAAGGAAA
 GGTCGTTATCGACGGAGCTAAGATGACTGAGTCTTTCATCGGTACTACTGGCGGTGAGGATGGTTCTTTT 1190
 P S N S C L D S T D S E S S H D D R Q S Y Q G N
 CCCTGCCTTAAATCCCAAGAGGAAACAAAGCCCAGCTTACATGAAGGAGGATGTCAAGGCTTTGGATGCT
 GGGACGGAATTTAGGGTTCTCCTTTGTTTCGGGTGCAATGTACTTCTCTACAGTTCGAAACCTACGA 1260
 P A L N P K R K Q S P A Y M K E D V K A L D A

FIG. 4

ACCAAGGCCCCCAAGGGCTCTCTGAAGGACATCTATAAGGTTTTCAATGGAGAAGGAGAACAGATAAGGG 1330
 TGGTTCCGGGGGTTCCCGAGAGACTTCCTGTAGATATTCCAAAAGTTACCTCTTCCTCTTGTCTATTCCC
 T K A P K G S L K D I Y K V F N G E G E Q I R
 CCTTCAAGTGTGAGCACTGCCGAGTCCTTTTTCTAGACCATGTCATGTACACCATTACATGGGTTGCCA 1400
 GGAAGTTCACACTCGTGACGGCTCAGGAAAAAGATCTGGTACAGTACATGTGGTAAGTGTACCCAACGGT
 A F K C E H C R V L F L D H V M Y T I H M G C H
 TGGCTACCGGGACCCACTGGAATGCAACATCTGTGGCTACAGAAGCCAGGACCGCTACGAATTTTCATCA 1470
 ACCGATGGCCCTGGGTGACCTTACGTTGTAGACACCGATGTCTTCGGTCCTGGCGATGCTTAAAAGTAGT
 G Y R D P L E C N I C G Y R S Q D R Y E F S S
 CACATTGTTGGGGGGCAGCACACATTCCACTAGGCGTTTGCATTCCAAGG 1520
 GTGTAACAACCCCCGTCGTGTGTAAGGTGATCCGCAAACGTAAGGTTC
 H I V G G Q H T F H . A F A F Q G

FIG. 4
 (3 of 3)

1/1	31/11
GCC CGG GCA GGT CGC ATT GCT ATA GCA CTG	ACT GAC CTC TCT CTC TCT CTT TTT TTT CCT
A R A G R I A I A L	T D L S L S L F F P
61/21	91/31
CTT TCC TGA AAC CCG ACA TTG TCA CCT CCT	CTT TGA GGG TTA GAA GAA GCT GAG ATC TCC
L S * N P T L S P P	L * G L E E A E I S
121/41	151/51
CGA CAG AGC TGG AAA TGG TGA TGA ATC TTT	TTT AAT CAA AGG ACA ATT TCT TTT CAT TGC
R Q S W K W * * I F	F N Q R T I S F H C
181/61	211/71
ACT TTG ACT ATG GAA ACA GAG GCT ATT GAT	GGC TAT ATA ACG TGT GAC AAT GAG CTT TCA
T L T M E T E A I D	G Y I T C D N E L S
241/81	271/91
CCC GAA AGG GAG CAC TCC AAT ATG GCA ATT	GAC CTC ACC TCA AGC ACA CCC AAT GGA CAG
P E R E H S N M A I	D L T S S T P N G Q
301/101	331/111
CAT GCC TCA CCA AGT CAC ATG ACA AGC ACA	GAT TCA GTA AAG CTA GAA ATG CAG AGT GAT
H A S P S H M T S T	D S V K L E M Q S D
361/121	391/131
GAA GAG TGT GAC AGG AAA CCC CTG AGC CGT	GAA GAT GAG ATC AGG GGC CAT GAT GAG GGT
E E C D R K P L S R	E D E I R G H D E G
421/141	451/151
AGC AGC CTA GAA GAA CCC CTA ATT GAG AGC	AGC GAG GTG GCT GAC AAC AGG GAA GTC CAG
G S L E E P L I E S	S E V A D N R E V Q
481/161	511/171
GAG CTT CAA GGC GAG GGA GGA ATC CGG CTT	CCG AAT GGT AAA CTG AAA TGT GAC GTC TGT
E L Q G E G G I R L	P N G K L K C D V C
541/181	571/191
GGC ATG GTT TGC ATT GGG CCC AAT GTG CTT	ATG GTA CAT AAA AGG AGT CAC ACT GGT GAA
G M V C I G P N V L	M V H K R S H T G E
601/201	631/211
CGC CCC TTC CAC TGT AAC CAG TGT GGA GCT	TCT TTT ACT CAG AAG GGC AAC CTT CTG AGA
R P F H C N Q C G A	S F T Q K G N L L R
661/221	691/231
CAC ATA AAG TTA CAC TCT GGA GAG AAG CCG	TTC AAA TGT CCT TTC TGT AGT CAC GCC TGT
H I K L H S G E K P	F K C P F C S H A C
721/241	751/251
TGA AGA AGG GAC GCC CTC ACA GGA TAC CTC	AGG ACC CAT TCT GTG GGT AAA CCT CAC AAG
R R D A L T G Y L	R T H S V G K P H K
781/261	811/271
TGC AAC TAC TGT GGA CGA AGC TAC AAG CAG	CGC AGT TCA CTG GAG GAG CAC AAG GAA CGC
C N Y C G R S Y K Q	R S S L E E H K E R
841/281	871/291
TGC CAC AAC TAT CTC CAG AAT GTC AGC ATG	GAG GCT GCT GGG CAG GTC ATG AGT CAC CAT
C H N Y L Q N V S M	E A A G Q V M S H H
901/301	931/311
GTA CCT CCT ATG GAA GAT TGT AAG GAA CAA	GAG CCT ATT ATG GAC AAC AAT ATT TCT CTG
V P P M E D C K E Q	E P I M D N N I S L
961/321	991/331
GTG CCT TTT GAG AGA CCT GCT GTC ATA GAG	AAG CTC ACG GGG AAT ATG GGA AAA CGT AAA
V P F E R P A V I E	K L T G N M G K R K
1021/341	1051/351
AGC TCC ACT CCA CAA AAG TTT GTG GGG GAA	AAG CTC ATG CGA TTC AGC TAC CCA GAT ATT
S S T P Q K F V G E	K L M R F S Y P D I
1081/361	1111/371
CAC TTT GAT ATG AAC TTA ACA TAT GAG AAG	GAG GCT GAG CTG ATG CAG TCT CAT ATG ATG
H F D M N L T Y E K	E A E L M Q S H M M
1141/381	1171/391
GAC CAA GCC ATC AAC AAT GCA ATC ACC TAC	CTT GGA GCT GAG GCC CTT CAC CCT CTG ATG
D Q A I N N A I T Y	L G A E A L H P L M
1201/401	1231/411
CAG CAC CCG CCA AGC ACA ATC GCT GAA GTG	GCC CCA GTT ATA AGC TCA GCT TAT TCT CAG
Q H P P S T I A E V	A P V I S S A Y S Q

FIG. 5
(1 of 2)

1261/421
 GTC TAT CAT CCA AAT AGG ATA GAA AGA CCC ATT AGC AGG GAA ACT GCT GAT AGT CAT GAA
 V Y H P N R I E R P I S R E T A D S H E
 1321/441
 AAC AAC ATG GAT GGC CCC ATC TCT CTC ATC AGA CCA AAG AGT CGA CCC CAG GAA AGA GAG
 N N M D G P I S L I R P K S R P Q E R E
 1381/461
 GCC TCT CCC AGC AAT AGC TGC CTG GAT TCC ACT GAC TCA GAA AGC AGC CAT GAT GAC CAC
 A S P S N S C L D S T D S E S S H D D H
 1441/481
 CAG TCC TAC CAA GGA CAC CCT GCC TTA AAT CCC AAG AGG AAA CAA AGC CCA GCT TAC ATG
 Q S Y Q G H P A L N P K R K Q S P A Y M
 1501/501
 AAG GAG GAT GTC AAA GCT TTG GAT ACT ACC AAG GCT CCT AAG GGC TCT CTG AAG GAC ATC
 K E D V K A L D T T K A P K G S L K D I
 1561/521
 TAC AAG GTC TTC AAT GGG GAA GGA GAA CAG ATT AGG GCC TTC AAG TGT GAG CAC TGC CGA
 Y K V F N G E G E Q I R A F K C E H C R
 1621/541
 GTC CTT TTC CTA GAC CAT GTC ATG TAC ACC ATT CAC ATG GGT TGC CAT GGC TAC CGG GAC
 V L F L D H V M Y T I H M G C H G Y R D
 1681/561
 CCA CTG GAA TGT AAC ATC TGT GGC TAC AGA AGC CAG GAC CGT TAT GAG TTT TCA TCA CAC
 P L E C N I C G Y R S Q D R Y E F S S H
 1741/581
 ATT GTT CGA GGG GAG CAC ACA TTC CAC TAG GCC TTT TCA TTC CAA AGG GGA CCC TAT GAA
 I V R G E H T F H * A F S F Q R G P Y E
 1801/601
 GTA AAG ACT GCA CAT GAA GAA ATA CTG CAC TTA CAA TCC CAC CTT TCC TCA AAT GTT GTA
 V K T A H E E I L H L Q S H L S S N V V
 1861/621
 CCT TTT ATT TTT TTA ATA TAA TAC TGG TGA TAA TCT TAT TTT GTG GAG CAG TGT CAT TTG
 P F I F L I * Y W * * S Y F V E Q C H L
 1921/641
 CTC TGC T
 C

1 ATGGAACAGACGCTATTGATGGCTATATAACATGTGACAATGAGCTTTC 50
|||||
190 ATGGAACAGAGGCTATTGATGGCTATATAACGTGTGACAATGAGCTTTC 239
51 ACCCGAAGGGGAACACGCCAATATGGCCATTGACCTCACCTCAAGCACGC 100
|||||
240 ACCCGAAGGGAGACTCCAATATGGCAATTGACCTCACCTCAAGCACAC 289
101 CCAATGGACAGCACGCCTCGCCAAGTCACATGACAAGCACAAATTCTGTA 150
|||||
290 CCAATGGACAGCATGCCTCACCAAGTCACATGACAAGCACAGATTGAGTA 339
151 AAGCTGGAATGCAGAGTGATGAAGAGTGTGACAGGCAGCCCCTGAGCCG 200
|||||
340 AAGCTAGAAATGCAGAGTGATGAAGAGTGTGACAGGAACCCCCTGAGCCG 389
201 TGAGGATGAGATCAGGGGCCACGATGAGGGGAGCAGCCTAGAAGAACCCC 250
|||||
390 TGAAGATGAGATCAGGGGCCATGATGAGGGTAGCAGCCTAGAAGAACCCC 439
251 TAATTGAGAGCAGCGAGGTGGCCGACAACAGGAAAGTCCAGGACCTTCAA 300
|||||
440 TAATTGAGAGCAGCGAGGTGGCTGACAACAGGGAAGTCCAGGAGCTTCAA 489
301 GGCGAGGGAGGAATCCGGCTTCCGAATGGTAAACTGAAATGTGACGTCTG 350
|||||
490 GGCGAGGGAGGAATCCGGCTTCCGAATGGTAAACTGAAATGTGACGTCTG 539
351 TGGCATGGTTTGCATTGGGCCCAATGTGCTTATGGTACATAAAAGGAGTC 400
|||||
540 TGGCATGGTTTGCATTGGGCCCAATGTGCTTATGGTACATAAAAGGAGTC 589
401 AACTGGTGAGCGGCCCTTCCACTGTAACCAAGTGCAGGAGCTTCTTTTACC 450
|||||
590 AACTGGTGAAACGCCCTTCCACTGTAACCAAGTGTGAGCTTCTTTTACT 639
451 CAGAAGGGCAACCTTCTGAGACACATAAAGTTAACTCTGGAGAGAAGCC 500
|||||
640 CAGAAGGGCAACCTTCTGAGACACATAAAGTTAACTCTGGAGAGAAGCC 689
501 CTTCAAATGTCCTTTCTGTAGCTATGCTTGTAGAAGAAGGGACGCTCTCA 550
|||||
690 GTTCAAATGTCCTTTCTGTAGTCACGCCTGTAGAAGAAGGGACGCCCTCA 739
551 CAGGACACCTCAGGACCCATTCTGTGGGTAAACCTCACAAGTGTAACCTAC 600
|||||
740 CAGGATACCTCAGGACCCATTCTGTGGGTAAACCTCACAAGTGCAACTAC 789
601 TGTGGCCGAAGCTACAAGCAGCGCACGTCACCTGGAGGAACACAAGGAACG 650
|||||
790 TGTGGACGAAGCTACAAGCAGCGCAGTTCACTGGAGGAGCACAAAGGAACG 839
651 CTGTCAAACTATCTCCAGAATGTCAGCATGGAGGCTGCCGGGCAGGTCA 700
|||||
840 CTGCCACAACTATCTCCAGAATGTCAGCATGGAGGCTGCTGGGCAGGTCA 889
701 TGAGTCACCATGTACCGCCTATGGAAGATTGTAAGGAACAAGAGCCTATC 750
|||||
890 TGAGTCACCATGTACCTCCTATGGAAGATTGTAAGGAACAAGAGCCTATT 939
751 ATGGACAACAATATTTCTCTGGTGCCCTTTTGAGAGACCTGCTGTCATAGA 800
|||||

FIG. 6
(1 of 3)

940 ATGGACAACAATATTTCTCTGGTGCCTTTTGAGAGACCTGCTGTCATAGA 989
 801 GAAGCTCACGGCAAATATGGGAAAGCGCAAAAGCTCCACTCCTCAGAAGT 850
 990 GAAGCTCACGGGGAATATGGGAAAACGTAAAAGCTCCACTCCACAAAAGT 1039
 851 TTGTGGGGGAAAAGCTTATGCGATTGAGCTACCCAGATATTCATTTTGAT 900
 1040 TTGTGGGGGAAAAGCTCATGCGATTGAGCTACCCAGATATTCATTTTGAT 1089
 901 ATGAACTTAACATATGAGAAGGAGGCTGAGCTGATGCAGTCTCATATGAT 950
 1090 ATGAACTTAACATATGAGAAGGAGGCTGAGCTGATGCAGTCTCATATGAT 1139
 951 GGACCAAGCCATCAACAATGCAATCACCTACCTTGGAGCTGAGGCCCTTC 1000
 1140 GGACCAAGCCATCAACAATGCAATCACCTACCTTGGAGCTGAGGCCCTTC 1189
 1001 ACCCTCTGATGCAGCATGCACCAAGCACAATCGCTGAGGTGGCCCCAGTT 1050
 1190 ACCCTCTGATGCAGCACCCGCCAAGCACAATCGCTGAAGTGGCCCCAGTT 1239
 1051 ATAAGCTCAGCTTATTCTCAGGTCTATCATCCAAACAGGATAGAAAGACC 1100
 1240 ATAAGCTCAGCTTATTCTCAGGTCTATCATCCAAATAGGATAGAAAGACC 1289
 1101 CATTAGCAGGGAAACATCTGATAGTCACGAAAACAACATGGATGGCCCCA 1150
 1290 CATTAGCAGGGAAACTGCTGATAGTCATGAAAACAACATGGATGGCCCCA 1339
 1151 TCTCTCTCATCAGACCAAAGAGTCGACCCCAGGAAAGAGAGGCCTCGCCC 1200
 1340 TCTCTCTCATCAGACCAAAGAGTCGACCCCAGGAAAGAGAGGCCTCTCCC 1389
 1201 AGCAATAGCTGCCTCGATTCTACTGACTCAGAAAGTAGCCATGATGACCG 1250
 1390 AGCAATAGCTGCCTGGATTCCACTGACTCAGAAAGCAGCCATGATGACCA 1439
 1251 CCAGTCCTACCAAGGAAACCTGCCTTAAATCCCAAGAGGAAACAAAGCC 1300
 1440 CCAGTCCTACCAAGGACACCCTGCCTTAAATCCCAAGAGGAAACAAAGCC 1489
 1301 CAGCTTACATGAAGGAGGATGTCAAGGCTTTGGATGCTACCAAGGCCCCC 1350
 1490 CAGCTTACATGAAGGAGGATGTCAAAGCTTTGGATACTACCAAGGCTCCT 1539
 1351 AAGGGCTCTCTGAAGGACATCTATAAGGTTTCAATGGAGAAGGAGAACA 1400
 1540 AAGGGCTCTCTGAAGGACATCTACAAGGCTTCAATGGGGAAGGAGAACA 1589
 1401 GATAAGGGCCTTCAAGTGTGAGCACTGCCGAGTCCTTTTCTAGACCATG 1450
 1590 GATTAGGGCCTTCAAGTGTGAGCACTGCCGAGTCCTTTTCTAGACCATG 1639
 1451 TCATGTACACCATTACATGGGTTGCCATGGCTACCGGGACCCACTGGAA 1500
 1640 TCATGTACACCATTACATGGGTTGCCATGGCTACCGGGACCCACTGGAA 1689
 1501 TGCAACATCTGTGGCTACAGAAGCCAGGACCGCTACGAATTTTCATCACA 1550
 1690 TGTAACATCTGTGGCTACAGAAGCCAGGACCGTTATGAGTTTTTCATCACA 1739

FIG. 6
 (2 of 3)


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1  METEAIDGYITCDNELSPEREHSNMAIDLTSSTPNGQHASP SHMTSTD SV 50
1  METEAIDGYITCDNELSPEREHSNMAIDLTSSTPNGQHASP SHMTSTD SV 50

51  KLEMQSDEECDRKPLSREDEIRGHDEGSSLEEPLIESSEVADNREVQELQ 100
51  KLEMQSDEECDRKPLSREDEIRGHDEGSSLEEPLIESSEVADNREVQELQ 100

101 GEGGIRLPNGKCLKDVCGMVCIGPNVLMVHKRSHTGERPFHCNQCGASFT 150
101 GEGGIRLPNGKCLKDVCGMVCIGPNVLMVHKRSHTGERPFHCNQCGASFT 150

151 QKGNLLRHIKLSGEKPFKCPFC SHACRRRDALTGYLRTHSVGKPHKCN Y 200
151 QKGNLLRHIKLSGEKPFKCPFC SHACRRRDALTGYLRTHSVGKPHKCN Y 200

201 CGRSYKQRSSLEE HKERCHNYLQNVSM EAAGQVMSHHVPPMEDCKEQEPI 250
201 CGRSYKQRSSLEE HKERCHNYLQNVSM EAAGQVMSHHVPPMEDCKEQEPI 250

251 MDNNISLVPFERPAVIEKLTGNMGKRKSS TPQKFVGEKLMRFSYPDIHFD 300
251 MDNNISLVPFERPAVIEKLTGNMGKRKSS TPQKFVGEKLMRFSYPDIHFD 300

301 MNLTYEKEAELMQSHMMDQAINNAITYLGAEALHPLMQHPPSTIAEVAPV 350
301 MNLTYEKEAELMQSHMMDQAINNAITYLGAEALHPLMQHPPSTIAEVAPV 350

351 ISSAYSQVYHPNRIERPISRETADSHENNMDGPISLIRPKSRPQEREASP 400
351 ISSAYSQVYHPNRIERPISRETADSHENNMDGPISLIRPKSRPQEREASP 400

401 SNSCLDSTDSESSHDDHQSYQGH PALNP KRKQSPAYMKEDVKALD TT KAP 450
401 SNSCLDSTDSESSHDDHQSYQGH PALNP KRKQSPAYMKEDVKALD TT KAP 450

451 KGSLKDIYKVFNGEGEQIRAFKCEHCRVLF LDHVMYTIHMGCHGYRDPLE 500
451 KGSLKDIYKVFNGEGEQIRAFKCEHCRVLF LDHVMYTIHMGCHGYRDPLE 500

501 CNICGYRSQDRYEFSSHIVRGEHTFH 526
501 CNICGYRSQDRYEFSSHIVRGEHTFH 526

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FIG. 7